CSE 259 Fall 2024

Project 1

1. Project description

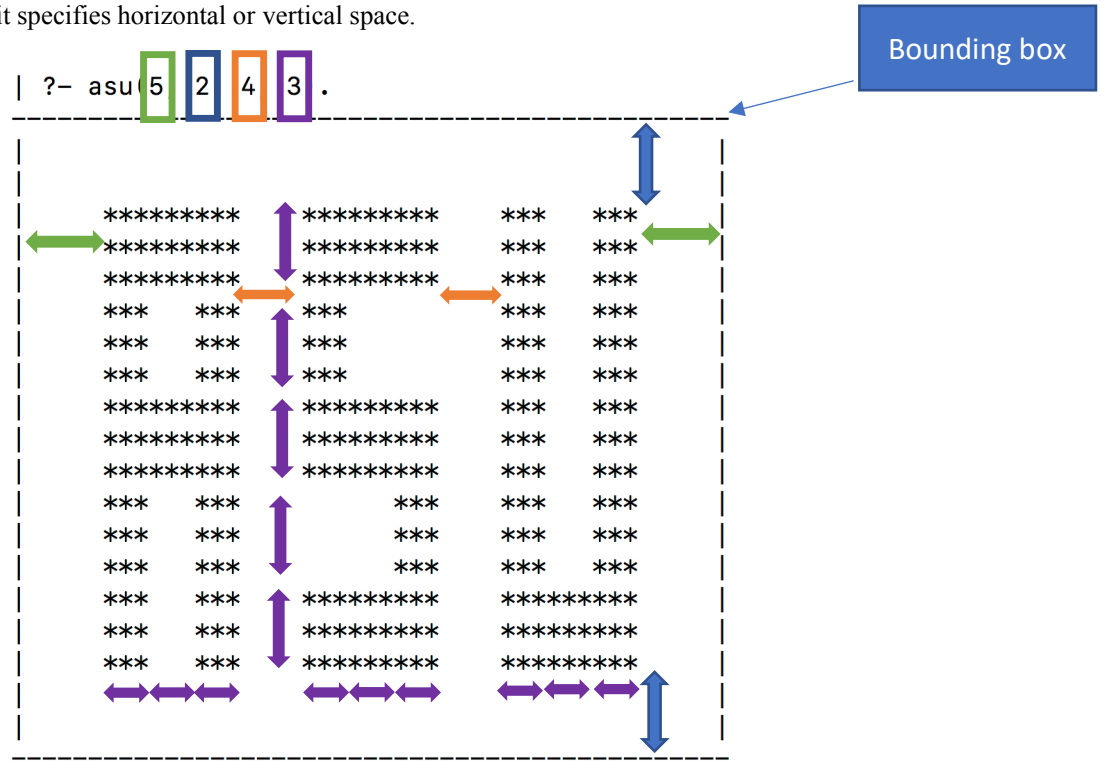
In this project, we are going to implement a prolog program that writes out ASU in various settings! Given that most of you are not familiar with prolog yet, we will make this project a ***small team project*** (***1-3*** students per team). Happy prolog!

2. Requirement specification:

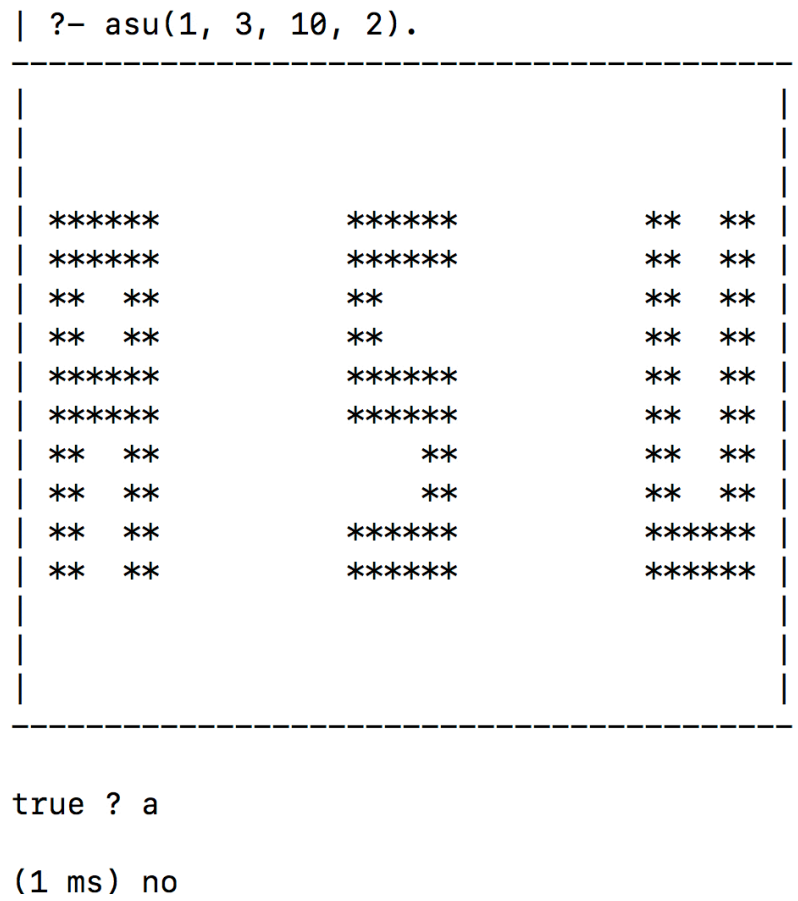
In this project, you must implement the following predicate in prolog:

| ?- **asu(*LeftRightMargin, BottomTopMargin, SpaceBetweenCharacters, FontSize*).**

Below is an example output that is expected of your program. Notice that the unit is given in ***text length or width***, depending on whether it specifies horizontal or vertical space.



Here is another example:



That's it!

3. Submission:

Submission is ***electronically*** via canvas in a zip file. ***One and only one*** member must submit the file. It should contain the following files:

a. README.txt: this file should include names of you team members ***and*** each of your contributions; be precise
b. asu.pl: your code; make sure to test it thoroughly and ***comment*** properly.

4. Grading:

Grading will be based on the following criteria:

a. Whether you code satisfies the functional requirements (70%).
b. Boundary case checking (10%)
c. Comment (20%)

5. Hints:

a. You will need to use arithmetic operations a lot (see lecture slides on gprolog or the gprolog manual); to assign a numerical value to a variable, use, for example, "X ***is*** 3".
b. Use gprolog output function, "***write***(Characters)", to write characters to the terminal
c. To express OR, use "***;***". For example, "(a; b)" will return true if either a or b can be proven.